

**WEST****End of Result Set**

Generate Collection

Print

L1: Entry 1 of 1

File: DWPI

Dec 4, 2001

DERWENT-ACC-NO: 2001-205246

DERWENT-WEEK: 200203

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Thermal transfer material for printer, consists of thermal conversion layer and image forming layer which has specific smoothness and average surface roughness

INVENTOR: TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

FUJI PHOTO FILM CO LTD

CODE

FUJF

PRIORITY-DATA: 1999JP-0167406 (June 14, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6326121 B1	December 4, 2001		000	G03F007/34
JP 2000355177 A	December 26, 2000		014	B41M005/40

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6326121B1	June 13, 2000	2000US-0592811	
JP2000355177A	June 14, 1999	1999JP-0167406	

INT-CL (IPC): B41 J 2/435; B41 M 5/26; B41 M 5/40; G03 B 27/60; G03 F 7/09; G03 F 7/34

ABSTRACTED-PUB-NO: JP2000355177A

## BASIC-ABSTRACT:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2 mu m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1 mu m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

ABSTRACTED-PUB-NO:

US 6326121B

## EQUIVALENT-ABSTRACTS:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2  $\mu$  m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1  $\mu$  m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THERMAL TRANSFER MATERIAL PRINT CONSIST THERMAL CONVERT LAYER IMAGE FORMING LAYER SPECIFIC SMOOTH AVERAGE SURFACE ROUGH

DERWENT-CLASS: G05 P75 P82 P84 T04

CPI-CODES: G05-F01;

EPI-CODES: T04-G03B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-061354

Non-CPI Secondary Accession Numbers: N2001-146698

**WEST****End of Result Set**

Generate Collection

Print

L2: Entry 2 of 2

File: DWPI

Dec 4, 2001

DERWENT-ACC-NO: 2001-205246

DERWENT-WEEK: 200203

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Thermal transfer material for printer, consists of thermal conversion layer and image forming layer which has specific smoothness and average surface roughness

INVENTOR: TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

FUJI PHOTO FILM CO LTD

CODE

FUJF

PRIORITY-DATA: 1999JP-0167406 (June 14, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6326121 B1	December 4, 2001		000	G03F007/34
JP <u>2000355177</u> A	December 26, 2000		014	B41M005/40

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6326121B1	June 13, 2000	2000US-0592811	
JP2000355177A	June 14, 1999	1999JP-0167406	

INT-CL (IPC): B41 J 2/435; B41 M 5/26; B41 M 5/40; G03 B 27/60; G03 F 7/09; G03 F 7/34

ABSTRACTED-PUB-NO: JP2000355177A

## BASIC-ABSTRACT:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2 mu m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1 mu m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

ABSTRACTED-PUB-NO:

US 6326121B

**WEST****End of Result Set**

Generate Collection

Print

L2: Entry 2 of 2

File: DWPI

Dec 4, 2001

DERWENT-ACC-NO: 2001-205246

DERWENT-WEEK: 200203

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Thermal transfer material for printer, consists of thermal conversion layer and image forming layer which has specific smoothness and average surface roughness

INVENTOR: TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

FUJI PHOTO FILM CO LTD

CODE

FUJF

PRIORITY-DATA: 1999JP-0167406 (June 14, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6326121 B1	December 4, 2001		000	G03F007/34
JP <u>2000355177</u> A	December 26, 2000		014	B41M005/40

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6326121B1	June 13, 2000	2000US-0592811	
JP2000355177A	June 14, 1999	1999JP-0167406	

INT-CL (IPC): B41 J 2/435; B41 M 5/26; B41 M 5/40; G03 B 27/60; G03 F 7/09; G03 F 7/34

ABSTRACTED-PUB-NO: JP2000355177A

## BASIC-ABSTRACT:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2 mu m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1 mu m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

ABSTRACTED-PUB-NO:

US 6326121B

EQUIVALENT-ABSTRACTS:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2  $\mu$ m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1  $\mu$ m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THERMAL TRANSFER MATERIAL PRINT CONSIST THERMAL CONVERT LAYER IMAGE FORMING LAYER SPECIFIC SMOOTH AVERAGE SURFACE ROUGH

DERWENT-CLASS: G05 P75 P82 P84 T04

CPI-CODES: G05-F01;

EPI-CODES: T04-G03B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-061354

Non-CPI Secondary Accession Numbers: N2001-146698

## EQUIVALENT-ABSTRACTS:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2  $\mu$  m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1  $\mu$  m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off..

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THERMAL TRANSFER MATERIAL PRINT CONSIST THERMAL CONVERT LAYER IMAGE FORMING LAYER SPECIFIC SMOOTH AVERAGE SURFACE ROUGH

DERWENT-CLASS: G05 P75 P82 P84 T04

CPI-CODES: G05-F01;

EPI-CODES: T04-G03B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-061354

Non-CPI Secondary Accession Numbers: N2001-146698

**WEST**

Generate Collection

Print

L4: Entry 3 of 4

File: DWPI

May 22, 2001

DERWENT-ACC-NO: 2000-130204  
DERWENT-WEEK: 200130  
COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Heat transfer sheet forming photothermal convertive layer containing polyimide resin - soluble in organic solvent and photothermal convertive material, useful for color proofs

INVENTOR: NAKAMURA, H; TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

FUJI PHOTO FILM CO LTD

CODE

FUJF

PRIORITY-DATA: 1998JP-0105185 (April 15, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6235445 B1	May 22, 2001		000	B41M005/025
JP 2000001055 A	January 7, 2000		017	B41M005/30

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6235445B1	April 14, 1999	1999US-0291743	
JP2000001055A	April 15, 1999	1999JP-0107668	

INT-CL (IPC): B41 M 5/025; B41 M 5/30; B41 M 5/40; C08 L 79/08

ABSTRACTED-PUB-NO: JP2000001055A

BASIC-ABSTRACT:

NOVELTY - A heat transfer sheet forms a photothermal convertive layer and an image forming layer on the support. The photothermal convertive layer is obtained by applying a coating liquid containing polyimide resin soluble in organic solvent and a photothermal convertive material and drying it.

USE - Used to image forming method useful for forming color proofs (DDCP: direct digital color proofs) or mask images.

ADVANTAGE - The sheet can good transfer images with no fogging or transfer obstruction because the photothermal convertive layer has high heat and humidity resistance.

ABSTRACTED-PUB-NO:

US 6235445B

EQUIVALENT-ABSTRACTS:

NOVELTY - A heat transfer sheet forms a photothermal convertive layer and an image forming layer on the support. The photothermal convertive layer is obtained by applying a coating liquid containing polyimide resin soluble in organic solvent and a photothermal convertive material and drying it.

USE - Used to image forming method useful for forming color proofs (DDCP: direct

**WEST**

Generate Collection

Print

L4: Entry 3 of 4

File: DWPI

May 22, 2001

DERWENT-ACC-NO: 2000-130204  
DERWENT-WEEK: 200130  
COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Heat transfer sheet forming photothermal convertive layer containing polyimide resin - soluble in organic solvent and photothermal convertive material, useful for color proofs

INVENTOR: NAKAMURA, H; TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

CODE

FUJI PHOTO FILM CO LTD

FUJF

PRIORITY-DATA: 1998JP-0105185 (April 15, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6235445 B1	May 22, 2001		000	B41M005/025
JP 2000001055 A	January 7, 2000		017	B41M005/30

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6235445B1	April 14, 1999	1999US-0291743	
JP2000001055A	April 15, 1999	1999JP-0107668	

INT-CL (IPC): B41 M 5/025; B41 M 5/30; B41 M 5/40; C08 L 79/08

ABSTRACTED-PUB-NO: JP2000001055A

BASIC-ABSTRACT:

NOVELTY - A heat transfer sheet forms a photothermal convertive layer and an image forming layer on the support. The photothermal convertive layer is obtained by applying a coating liquid containing polyimide resin soluble in organic solvent and a photothermal convertive material and drying it.

USE - Used to image forming method useful for forming color proofs (DDCP: direct digital color proofs) or mask images.

ADVANTAGE - The sheet can good transfer images with no fogging or transfer obstruction because the photothermal convertive layer has high heat and humidity resistance.

ABSTRACTED-PUB-NO:

US 6235445B

EQUIVALENT-ABSTRACTS:

NOVELTY - A heat transfer sheet forms a photothermal convertive layer and an image forming layer on the support. The photothermal convertive layer is obtained by applying a coating liquid containing polyimide resin soluble in organic solvent and a photothermal convertive material and drying it.

USE - Used to image forming method useful for forming color proofs (DDCP: direct



digital color proofs) or mask images.

ADVANTAGE - The sheet can good transfer images with no fogging or transfer obstruction because the photothermal convertive layer has high heat and humidity resistance.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HEAT TRANSFER SHEET FORMING LAYER CONTAIN POLYIMIDE RESIN SOLUBLE ORGANIC SOLVENT MATERIAL USEFUL PROOF

DERWENT-CLASS: A26 A89 G05 P75

CPI-CODES: A05-J01B; A08-S02; A11-B05D; A12-W07F1; G05-C; G05-F01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1 ] 018 ; P1081\*R F72 D01 ; S9999 S1627 S1605 Polymer Index [1.2] 018 ; ND01 ; N9999 N7147 N7034 N7023 ; K9483\*R ; K9676\*R ; K9712 K9676 ; Q9999 Q8822 Q8775 ; B9999 B5630 B3510 B3372 ; Q9999 Q8833 Q8775 ; N9999 N6780\*R N6655 ; Q9999 Q7863 ; B9999 B4682 B4568 ; B9999 B4717 B4706 B4568 ; B9999 B5618 B5572 ; B9999 B5572\*R Polymer Index [1.3] 018 ; R05268 D01 D11 D10 D23 D22 D31 D41 D50 D75 D85 F71 ; A999 A475

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-040407

Non-CPI Secondary Accession Numbers: N2000-098194

digital color proofs) or mask images.

ADVANTAGE - The sheet can good transfer images with no fogging or transfer obstruction because the photothermal convertive layer has high heat and humidity resistance.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HEAT TRANSFER SHEET FORMING LAYER CONTAIN POLYIMIDE RESIN SOLUBLE ORGANIC SOLVENT MATERIAL USEFUL PROOF

DERWENT-CLASS: A26 A89 G05 P75

CPI-CODES: A05-J01B; A08-S02; A11-B05D; A12-W07F1; G05-C; G05-F01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1 ] 018 ; P1081\*R F72 D01 ; S9999 S1627 S1605 Polymer Index [1.2] 018 ; ND01 ; N9999 N7147 N7034 N7023 ; K9483\*R ; K9676\*R ; K9712 K9676 ; Q9999 Q8822 Q8775 ; B9999 B5630 B3510 B3372 ; Q9999 Q8833 Q8775 ; N9999 N6780\*R N6655 ; Q9999 Q7863 ; B9999 B4682 B4568 ; B9999 B4717 B4706 B4568 ; B9999 B5618 B5572 ; B9999 B5572\*R Polymer Index [1.3] 018 ; R05268 D01 D11 D10 D23 D22 D31 D41 D50 D75 D85 F71 ; A999 A475

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-040407

Non-CPI Secondary Accession Numbers: N2000-098194